Please amend the above-noted application as follows:

IN THE CLAIMS

1. A golf ball comprising:

a one-piece core made of a mixture of compound components comprising:

a polybutadiene rubber having a cis content of 92% or greater; and,

a heavy weight filler having a specific gravity equal to or greater than about 5.6, wherein the heavy weight filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, zinc, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof; and,

a cover layer disposed upon the core.

2. The golf ball of claim 1 wherein the core produced with the heavy weight filler has a PGA compression lower than 95.7 and a coefficient of restitution higher than .695.

3. A three-piece wound golf ball comprising:

a one-piece center made of a mixture of compound components comprising:

a polybutadiene rubber having a cis content of 92% or greater and,

a heavy weight filler having a specific gravity of at least about 5.6, wherein the heavy weight filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, zinc, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof;

a thread winding layer disposed upon the core wherein the thread layer comprises rubber; and,

a cover layer disposed upon the thread winding layer.

4. The golf ball of claim 3 wherein the center produced with the heavy weight filler has a PGA compression lower than 95.7 and a coefficient of restitution higher than .695.

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5. The golf ball of claim 1 wherein the heavy weight filler is selected from the group consisting of bismuth, bismuth oxide, cobalt, iron, steel, tin, chromium, zinc, bismuth subcarbonate, ferrous oxide and mixtures thereof.

6. The golf ball of claim 1 wherein the heavy weight filler is selected from the group consisting of iron, steel, tin, chromium, ferrous oxide and mixtures thereof.

7. A method of making a golf ball center comprising the steps of:

selecting a heavy weight filler having a specific gravity of at least about 5.6;

mixing the filler with a polybutadiene rubber, a rubber vulcanizing ingredient and core regrind;

producing a plug;

curing the plug in a mold to form the center, wherein the center formed from the plug has a PGA compression lower than 89.3 and a coefficient of restitution higher than .697.

8. The golf ball of claim 3 wherein the center produced with the heavy weight filler is selected from the group consisting of bismuth, bismuth oxide, cobalt, iron, steel, tin, chromium, bismuth subcarbonate, cupric oxide, barium tungstate, ferrous oxide, and mixtures thereof.

9. The golf ball of claim 1 wherein the heavy weight filler is tungsten.

10. The golf ball of claim 3 wherein the heavy weight filler is tungsten.

11. The golf ball of claim 3 wherein the one-piece core further comprises a vulcanizing agent.

12. A golf ball solid center comprising:

a compound wherein the compound comprises polybutadiene rubber having a cis content of 92% or greater; and,

an inorganic filler having a specific gravity equal to or greater than about 5.6, mixed with the compound wherein the inorganic filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, zinc, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof.

13. The golf ball solid center of claim 12 wherein the inorganic filler selected is tungsten.

14. The golf ball solid center of claim 12 further comprising a vulcanizing ingredient.

15. The golf ball solid center of claim 12 further comprising a core regrind mixed with the compound.

16. The golf ball solid center of claim 13 wherein the center has a PGA compression lower than 89.3 and a coefficient of restitution higher than .697.

17. The golf ball solid center of claim 12 wherein the compound further comprises zinc diacrylate.

18. The golf ball of claim 2 wherein the core further comprises core regrind.

19. The golf ball center of claim 12 wherein the compound further comprises zinc oxide.

20. The golf ball center of claim 12 wherein the compound further comprises zinc stearate.

21. The golf ball center of claim 12 wherein the compound further comprises peroxide.

22. The golf ball of claim 1 wherein the core produced with the heavy weight filler has a PGA compression lower than 89.3 and a coefficient of restitution higher than .697.

23. The golf ball of claim 3 wherein the center produced with the heavy weight filler has a PGA compression lower than 89.3 and a coefficient of restitution higher than .697.

24. The golf ball of claim 1 wherein the golf ball produced with the heavy weight filler has a PGA compression lower than 103.6.

25. The golf ball of claim 3 wherein the golf ball produced with the heavy weight filler has a PGA compression lower than 97.3.

26. The golf ball of claim 1 wherein the golf ball produced with the heavy weight filler has a PGA compression lower than 97.3.

27. The golf ball of claim 3 wherein the golf ball produced with the heavy weight filler has a PGA compression lower than 103.6.

28. A golf ball comprising:

a one-piece core wherein the core has a PGA compression lower than 95.7 and a coefficient of restitution higher than .695, and wherein the center is made of a mixture of compound components comprising:

a polybutadiene rubber having a cis content of 92% or greater; and,

a heavy weight filler having a specific gravity equal to or greater than about 5.6;

a cover layer disposed upon the core wherein the golf ball produced with the heavy weight filler results in a PGA compression lower than 103.6.

29. A three piece wound golf ball comprising:

a one-piece center wherein the center has a PGA compression lower than 95.7 and a coefficient of restitution higher than .695 made of a mixture of compound components comprising:

a polybutadiene rubber having a cis content of 92% or greater; and,

a heavy weight filler having a specific gravity equal to or greater than about 5.6;

a thread winding layer disposed upon the center wherein the thread layer comprises rubber forming a core; and,

a cover layer disposed upon the core wherein the golf ball produced with the heavy weight filler results in a PGA compression lower than 103.6.

30. The golf ball of claim 28 wherein the heavy weight filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, zinc, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof.

31. The three piece golf ball of claim 29 wherein the heavy weight filler is selected from the group consisting of tungsten, bismuth, copper, bismuth oxide, nickel, cobalt, iron, steel, tin, chromium, zinc, bismuth subcarbonate, cupric oxide, barium tungstate, cuprous oxide, and mixtures thereof.

REMARKS

I. Claim Status

Claims 1- 31 are pending.

Claims 1-18 have been rejected

Claims 19-31 have been added

II. Amendments

Claims 2, 4-8, 12-17 are amended to more particularly point out what the applicant considers their invention. No new matter is added by the claim amendments. The ranges set forth in claims 2, 4, 7 and 16 are supported by the table displayed on pages 7-8, and the discussion of the table information (8:5-15). The discussion on page 8 describes a verbal range of a PGA lower than 89.3 and a coefficient of restitution greater than 0.697. (see column A and B)

Claims 5, 6 and 8 are amended to further limit the markush group of the independent claim from which they depend.